

Title (en)
FLOW CONTROL IN AN INK PEN

Title (de)
FLIESSSTEUERUNG IN EINEM TINTENSTIFT

Title (fr)
RÉGULATION DE DÉBIT DANS UN STYLO

Publication
EP 2195172 B1 20120620 (EN)

Application
EP 08834713 A 20081002

Priority
• US 2008078629 W 20081002
• US 86723607 A 20071004

Abstract (en)
[origin: US2009091606A1] In one embodiment a pressure regulator for an ink pen includes: a diaphragm between a lower pressure region and a higher pressure region, the diaphragm movable toward the lower pressure region in response to an increase in a pressure difference across the diaphragm; a valve operative between an open position in which ink may flow into the lower pressure region and a closed position in which ink may not flow into the lower pressure region; a first lever rotatable on a first fulcrum in response to movement of the diaphragm toward the lower pressure region; and a second lever connected to the valve, the second lever rotatable on a second fulcrum in response to rotation of the first lever to move the valve from the closed position to an open position.

IPC 8 full level
B41J 2/175 (2006.01)

CPC (source: EP US)
B41J 2/17556 (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2009091606 A1 20090409; US 7862138 B2 20110104; BR PI0816628 A2 20191008; CN 101815621 A 20100825;
CN 101815621 B 20120509; DK 2195172 T3 20120723; EP 2195172 A2 20100616; EP 2195172 A4 20101006; EP 2195172 B1 20120620;
ES 2385855 T3 20120801; PL 2195172 T3 20120928; PT 2195172 E 20120716; TW 200922798 A 20090601; WO 2009046222 A2 20090409;
WO 2009046222 A3 20090528

DOCDB simple family (application)
US 86723607 A 20071004; BR PI0816628 A 20081002; CN 200880109802 A 20081002; DK 08834713 T 20081002; EP 08834713 A 20081002;
ES 08834713 T 20081002; PL 08834713 T 20081002; PT 08834713 T 20081002; TW 97136438 A 20080923; US 2008078629 W 20081002